

INSULATIVE CERAMIC COMPACT

ABSTRACT OF THE DISCLOSURE

An insulative ceramic compact is composed of a fired mixture of (A) a MgAl_2O_4 , $\text{Mg}_3\text{B}_2\text{O}_6$ and/or $\text{Mg}_2\text{B}_2\text{O}_5$ ceramic powder, and (B) a glass powder including from about 13 to 50% by weight of silicon oxide in terms of SiO_2 , from 8 to 60% by weight of boron oxide in terms of B_2O_3 , about 20% by weight or less of aluminum oxide in terms of Al_2O_3 , and from about 10 to 55% by weight of magnesium oxide in terms of MgO . The insulative ceramic compact can be obtained by firing at low temperatures of about 1000°C or less, can be obtained by sintering with Ag or Cu, has a low dielectric constant and a high Q value, and is suitable for use in the high-frequency range.